

# **EXHIBIT A**

IXL Math - Microsoft Internet Explorer

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**Pre-K skills**  
Counting dots, inside and outside, and more.  
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**Kindergarten skills**  
Identifying shapes, counting money, and more.  
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**First-grade skills**  
Bar graphs, addition word problems, and more.  
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**Second-grade skills**  
Place-value models, identifying fractions, and more.  
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**Third-grade skills**  
Multiplication facts, adding and subtracting decimals, and more.  
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**Fourth-grade skills**  
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IXL - Pre-K Math Practice - Microsoft Internet Explorer

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Address http://www.ixl.com/math/grade/pre-k/

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**Pre-K skills**

**Shapes**

- Identify circles, squares, and triangles
- Identify squares and rectangles
- Identify cubes and pyramids

**Count to 3**

- Count dots (up to 3)
- Count shapes (up to 3)
- Count objects (up to 3)
- Represent numbers (up to 3)

**Count to 5**

- Count dots (up to 5)
- Count shapes (up to 5)
- Count objects (up to 5)
- Represent numbers (up to 5)

**Count to 10**

- Count dots (up to 10)
- Count shapes (up to 10)
- Count objects (up to 10)
- Represent numbers (up to 10)

**Count to 20**

- Count dots (up to 20)

**Kindergarten skills**

**First-grade skills**

**Second-grade skills**

**Third-grade skills**

**Practice - Pre-K**

Here is a list of all of the skills students learn in pre-K! The skills are organized into categories, and you can move your mouse over any skill name to see a sample question. To start practicing, just click on any link. IXL will track your score, and the questions will even increase in difficulty as you improve!

**Shapes**

- A.1 Identify circles, squares, and triangles
- A.2 Identify squares and rectangles
- A.3 Identify cubes and pyramids

**Count to 3**

- B.1 Count dots (up to 3)
- B.2 Count shapes (up to 3)
- B.3 Count objects (up to 3)
- B.4 Represent numbers (up to 3)

**Count to 5**

- C.1 Count dots (up to 5)
- C.2 Count shapes (up to 5)
- C.3 Count objects (up to 5)
- C.4 Represent numbers (up to 5)

**Count to 10**

- D.1 Count dots (up to 10)
- D.2 Count shapes (up to 10)
- D.3 Count objects (up to 10)
- D.4 Represent numbers (up to 10)

**Count to 20**

- E.1 Count dots (up to 20)
- E.2 Count shapes (up to 20)
- E.3 Count objects (up to 20)
- E.4 Represent numbers (up to 20)

**Comparing**

- F.1 Compare groups (fewer or more)
- F.2 Compare in a chart (fewer or more)
- F.3 Compare in a mixed group

**Positions**

- G.1 Inside and outside
- G.2 Left and right
- G.3 Left, middle, and right
- G.4 Above and below
- G.5 Top and bottom

**Classify**

- H.1 Same
- H.2 Different
- H.3 Same and different
- H.4 Classify by color

**Size**

- I.1 Long and short
- I.2 Tall and short
- I.3 Light and heavy
- I.4 Holds more or less
- I.5 Compare height, weight, and capacity
- I.6 Wide and narrow

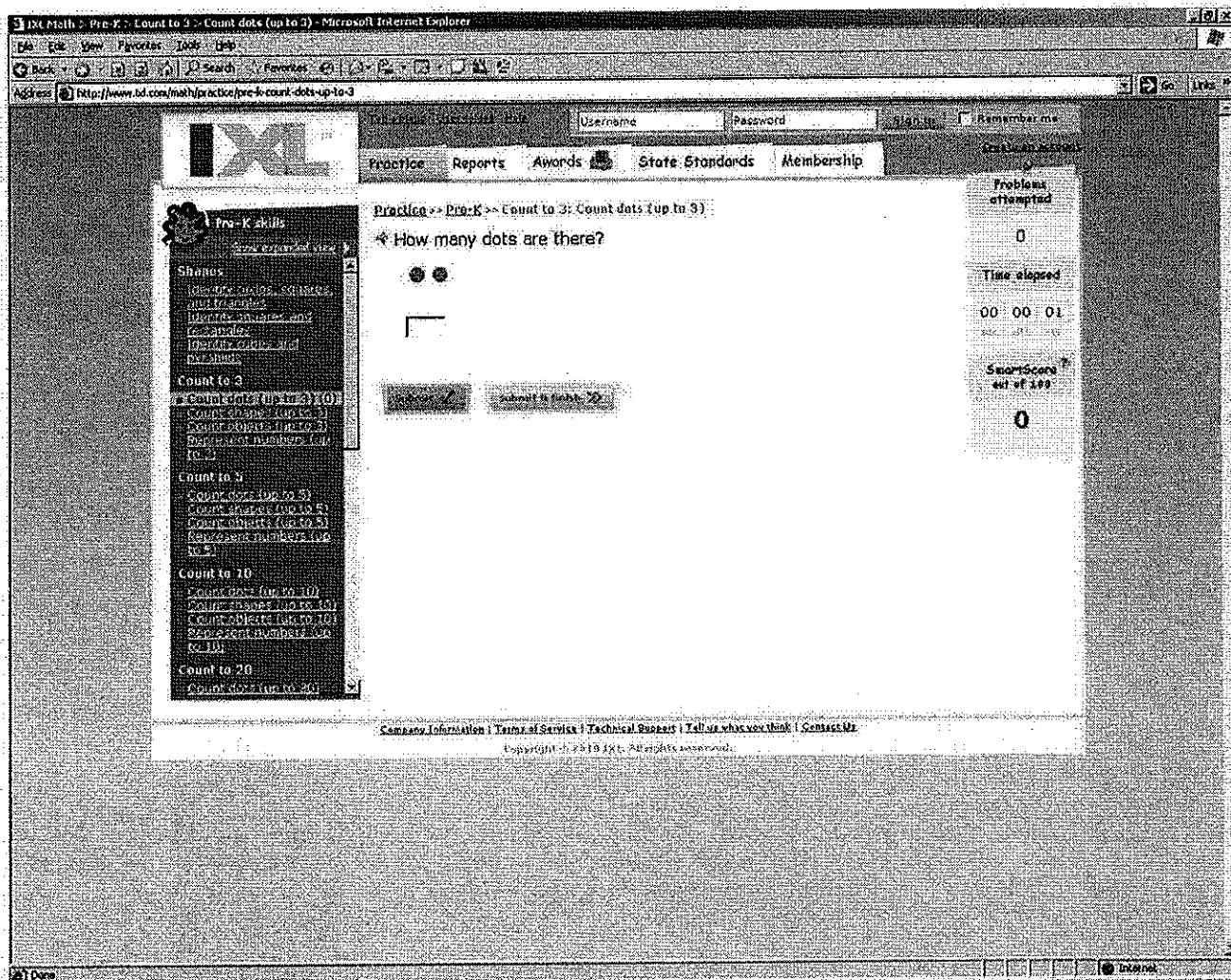
**Money**

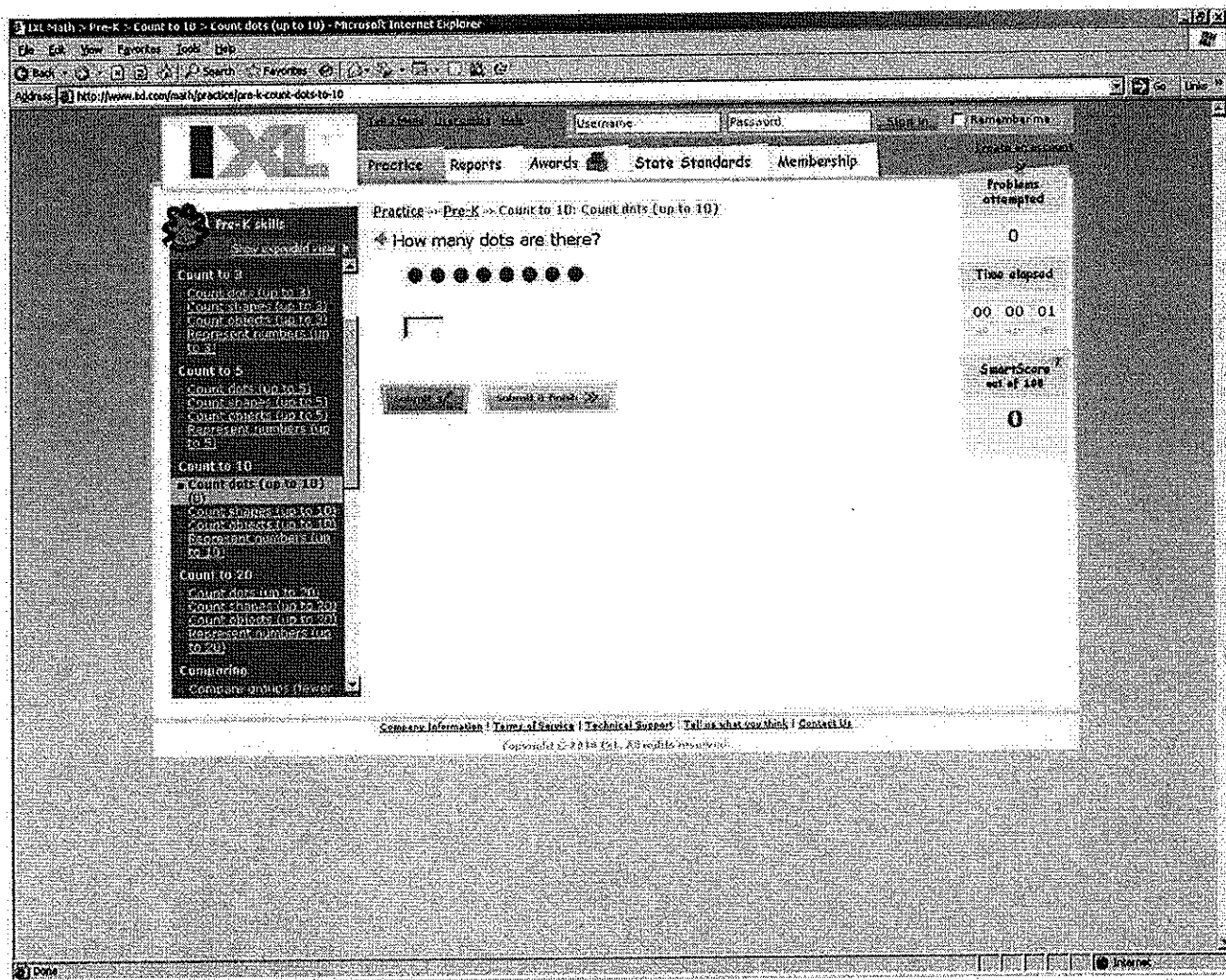
- J.1 Pennies and nickels

http://www.ixl.com/math/practice/pre-k-count-objects-to-5

Internet









IXL - Kindergarten Math Practice - Microsoft Internet Explorer

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# IXL

Practice >> Kindergarten

Here is a list of all of the skills students learn in kindergarten. The skills are organized into categories, and you can move your mouse over any skill name to see a sample question. To start practicing, just click on any link. IXL will track your score, and the questions will even increase in difficulty as you improve!

**Kindergarten skills**

- Numbers and counting up to 3
  - A.1 Count to 3
  - A.2 Represent numbers up to 3
  - A.3 Count by typing
- Numbers and counting up to 5
  - B.1 Count to 5
  - B.2 Represent numbers up to 5
  - B.3 Count by typing
  - B.4 Count up
  - B.5 Count down
- Numbers and counting up to 10
  - C.1 Count to 10
  - C.2 Represent numbers up to 10
  - C.3 Count by typing
  - C.4 Count up and down - with pictures
  - C.5 Count up and down - with numbers
  - C.6 Tally marks
  - C.7 Number lines
  - C.8 Before, after, and between
  - C.9 Count forward and backward
  - C.10 Names of numbers up to 10
  - C.11 Complete a sequence

**Numbers and counting up to 3**

**Positions**

- K.1 Inside and outside
- K.2 Left, middle, and right
- K.3 Top, middle, and bottom
- K.4 Above and below
- K.5 Location in a three-by-three grid

**Fractions**

- L.1 Identify halves, thirds, fourths
- L.2 Equal parts

**Time**

- M.1 Match clocks and times
- M.2 Read clocks and write times
- M.3 Times of everyday events
- M.4 Match analog and digital clocks
- M.5 Seasons
- M.6 A.M. and P.M.

**Sorting, ordering, and classifying**

- N.1 Same
- N.2 Different
- N.3 Same and different
- N.4 Classify by color
- N.5 Venn diagrams
- N.6 Put numbers up to 10 in order
- N.7 Put numbers up to 30 in order

**First-grade skills**

**Second-grade skills**

**Third-grade skills**

**Numbers and counting up to 20**

- D.1 Count to 20
- D.2 Represent numbers up to 20

IXL Math > Kindergarten > Numbers and counting up to 20 > Count to 20 - Microsoft Internet Explorer

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Kindergarten skills

- Count on and down - with counters
- Count on and down - with numbers
- Tally marks
- Number lines
- Before, after, and between
- Count forward and backward
- Names of numbers up to 10
- Complete a sequence
- Numbers and counting up to 20
- Count to 20 (0)
- Represent numbers up to 20
- Count by 1s and 2s
- Count on and down
- Tally marks
- Number lines
- Before, after, and between
- Count forward and backward
- Names of numbers
- Complete a sequence
- Count on and down
- Numbers and counting

Practice -> Kindergarten -> Numbers and counting up to 20: Count to 20

How many bicycles are there?

0

Time elapsed

00 00 03

SmartScore

0

Submit Answer

Submit & Finish

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IXL - First Grade Math Practice - Microsoft Internet Explorer

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Pre-K skills

Kindergarten skills

First-grade skills

Counting and number patterns

- Counting review - 0 to 10
- Counting review - up to 20
- Counting tens and ones - up to 30
- Counting - up to 30
- Counting - up to 100
- Skip counting - with pictures
- Counting by twos, fives, and tens - up to 100
- Counting forward and backward
- Number lines
- Hundred chart
- Identifying even and odd numbers
- Which even or odd number comes before or after?
- Skip counting patterns - with tables
- Sequences - count up and down by 1, 2, 3, 5, and 10
- Ordinal numbers
- Writing numbers in words
- Roman numerals I, V, X

Counting and number patterns

Comparing

- Comparing - review
- Comparing numbers up to 10
- Comparing numbers up to 100
- Comparison word problems

Estimating

- Estimate to the nearest ten

Fractions

- Halves, thirds, and fourths
- Equal parts
- Simple fractions: what fraction does the shape show?
- Simple fractions: parts of a group
- Fractions - word problems
- Compare fractions
- Simple fractions: which shape matches the fraction?

Geometry

- Identify 2-dimensional shapes
- Identify 3-dimensional figures
- Geometry of everyday objects
- Relate planar and solid figures
- Count sides and vertices
- Count edges, vertices, and faces
- Compare sides and vertices
- Compare edges, vertices, and faces

Second-grade skills

Third-grade skills

Practice

First grade

Here is a list of all of the skills students learn in first grade! The skills are organized into categories, and you can move your mouse over any skill name to see a sample question. To start practicing, just click on any link. IXL will track your score, and the questions will even increase in difficulty as you improve!

Counting and number patterns

- A.1 Counting review - 0 to 10
- A.2 Counting review - up to 20
- A.3 Counting tens and ones - up to 30
- A.4 Counting - up to 30
- A.5 Counting - up to 100
- A.6 Skip counting - with pictures
- A.7 Counting by twos, fives, and tens - up to 100
- A.8 Counting forward and backward
- A.9 Number lines
- A.10 Hundred chart
- A.11 Identifying even and odd numbers
- A.12 Which even or odd number comes before or after?
- A.13 Skip counting patterns - with tables
- A.14 Sequences - count up and down by 1, 2, 3, 5, and 10
- A.15 Ordinal numbers
- A.16 Writing numbers in words
- A.17 Roman numerals I, V, X

Addition

- B.1 Addition with pictures - sums to 10
- B.2 Addition sentences - sums to 10
- B.3 Word problems - sums to 10
- B.4 Word problems - write the addition sentence
- B.5 Ways to make a number
- B.6 Ways to make a number - addition sentences



IXL Math > 1st Grade > Addition > Addition with pictures - sums to 10 - Microsoft Internet Explorer

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**First-grade skills**

- Identifying even and odd numbers
- Which even or odd number comes before or after?
- Skip-counting patterns with tables
- Sequences - count up and down by 1, 2, 3, 5, and 10
- Ordinal numbers
- Writing numbers in words
- Reading numbers 1-10
- Comparison
- Place value
- Subtraction
- Measurement
- Geometry
- Graphing
- Statistics
- Mathematical reasoning
- Problem solving
- Mathematical communication
- Mathematical connections
- Mathematical habits of mind
- Mathematical practices
- Mathematical proficiency
- Mathematical literacy
- Mathematical fluency
- Mathematical accuracy
- Mathematical speed
- Mathematical confidence
- Mathematical motivation
- Mathematical persistence
- Mathematical curiosity
- Mathematical creativity
- Mathematical imagination
- Mathematical intuition
- Mathematical insight
- Mathematical understanding
- Mathematical knowledge
- Mathematical skills
- Mathematical abilities
- Mathematical competencies
- Mathematical proficiencies
- Mathematical standards
- Mathematical benchmarks
- Mathematical indicators
- Mathematical performance levels
- Mathematical achievement
- Mathematical growth
- Mathematical progress
- Mathematical improvement
- Mathematical development
- Mathematical learning
- Mathematical growth
- Mathematical progress
- Mathematical improvement
- Mathematical development
- Mathematical learning

**Add:**

1 + 2 =

Submit Answer

Problems attempted: 0

Time elapsed: 00:00:01

SmartScore: 0

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1st Math - 1st Grade - Addition - Addition sentences - sums to 10 - Microsoft Internet Explorer

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**IXL**

First-grade skills

Which even or odd number comes before or after?

Skip-counting patterns - with tens

Sequences - count up and down by 1, 2, 3, 5, and 10

Ordinal numbers

Writing numbers in words

Counting forwards 1-10

**Addition**

Addition with pictures - sums to 10

Addition sentences - sums to 10 (0)

Word problems - sums to 10

Word problems - write the addition sentence

Ways to make a number

Ways to make a number - using an addition sentence

Adding zero

Adding doubles


Adding facts - sum to 10

Adding facts - sum to 10

Word problems - sums

Practice - First grade - Addition: Addition sentences - sums to 10

Which addition sentence does this picture show?



☒  $1 + 1 = 2$

☐  $2 + 2 = 4$

☐  $1 + 2 = 3$

☐  $2 + 1 = 3$

Problems attempted: 0

Time elapsed: 00:00:02

SmartScore: 0

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IXL Math > 1st Grade > Spatial sense > Left, middle, and right - Microsoft Internet Explorer

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Practice > First grade > Spatial sense: Left, middle, and right

Look:



The doll is to the \_\_\_\_\_ of the eraser.

☐ left  
☐ right

Go on > Submit & Score >

Problems attempted: 0  
Time elapsed: 00:00:07  
SmartScore: 0 out of 100

First-grade skills

- Identify objects
- Relate planar and solid figures
- Count sides and vertices
- Count sides, vertices, and faces
- Compare sides and vertices
- Compare edges, vertices, and faces
- Open and closed shapes
- Pin, tape, and slide
- Estimate
- Same shape
- Spatial sense
- Left, middle, and right
- Above, below, top, middle, and bottom
- Location in a three-by-three grid
- Data and graphs
- Record data with tally marks, picture graphs, tables
- Interpret data in tally charts, picture graphs, tables
- Interpret bar graphs
- Write bar graphs

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IXL Math - 1st Grade - Data and graphs - Interpret data in tally charts, picture graphs, tables - Microsoft Internet Explorer

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First-grade skills


- Open and closed shapes
- Two-way and three-way
- Geometry
- Spatial sense
- Left, middle, and right
- Above, below, top, middle, and bottom
- Position in a three-by-three grid
- Data and graphs
- Record data with tally charts, picture graphs, tables
- Interpret data in tally charts, picture graphs, tables (0)
- Interpret bar graphs, which bar graph is correct?
- Measurement
- Read a thermometer
- Which unit of length is appropriate?
- Which unit of weight is appropriate?
- Compare and convert


Practice >> First grade >> Data and graphs: Interpret data in tally charts, picture graphs, tables

✦ Javier went shopping for a party and bought some gift bags and coolers. He made a tally chart of the supplies he bought:

✦ Which item did he buy more of, gift bags or coolers?

☐  gift bags

☐  coolers

Submit Answer Submit & Finish >>

Problem attempted: 0

Time elapsed: 00 00 01

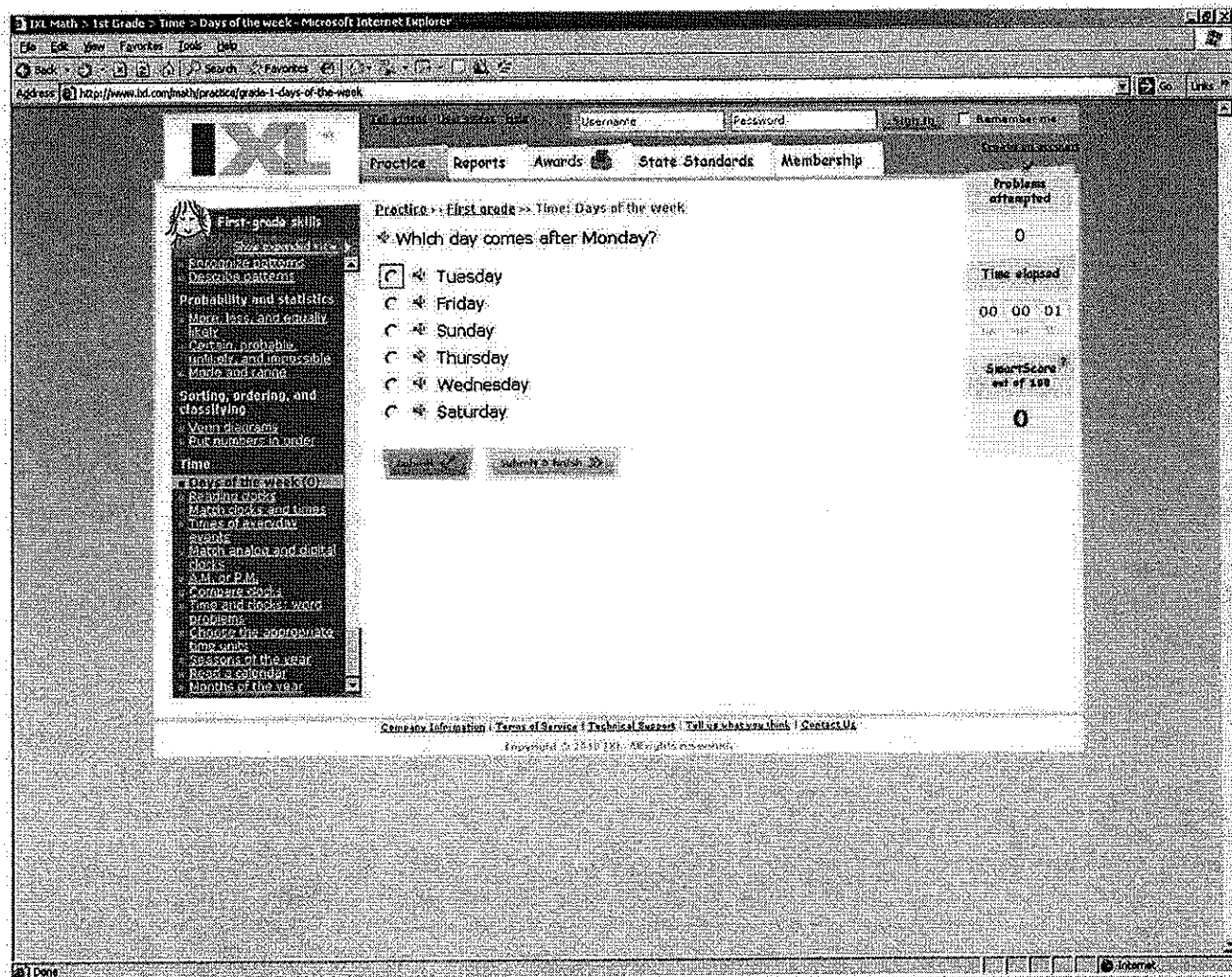
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Done





IXL Math > 1st Grade > Time > Seasons of the year - Microsoft Internet Explorer

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First-grade skills

- Counting and number
- Reading and writing
- Probability and statistics
- More, less, and equals
- Identifying
- Certain, probable, unlikely, and impossible
- Money and range
- Sorting, ordering, and classifying
- Using diagrams
- Put numbers in order
- Time
- Days of the week
- Reading clocks
- Match clocks and times
- Time of everyday events
- Match analog and digital clocks
- A.M. or P.M.
- Compare clocks
- Time and clocks word problems
- Choose the appropriate time unit
- Seasons of the year (0)
- Read a calendar
- Months of the year

Practice >> First grade >> Time: Seasons of the year

What season comes just before fall?

☐ spring

☐ summer

☐ winter

Submit Answer

Score & Points

Problems attempted: 0

Time elapsed: 00:00:02

SmartScore: 0 out of 100

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IXL Math > 1st Grade > Probability and statistics > Certain, probable, unlikely, and impossible • Microsoft Internet Explorer

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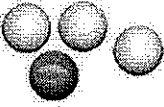
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**First-grade skills**

- Counting money
  - Count coins and bills
  - Count money
  - Count money
  - Count money
  - Count money
  - Count money
  - Count money
  - Count money
- Patterns
  - Recognize patterns
  - Describe patterns
- Probability and statistics
  - More, less, and equal
  - Certain, probable, unlikely, and impossible
  - Mode and range
- Sorting, ordering, and classifying
  - Use diagrams
  - Permutations in order
- Time
  - Days of the week
  - Reading clocks
  - Match clocks and times
  - Times of everyday events

**Practice >> First grade >> Probability and statistics: Certain, probable, unlikely, and impossible**

★ If you select a marble without looking, how likely is it that you will pick a orange one?



☒ certain  
☐ probable  
☐ unlikely  
☐ impossible

Submit Answer Submit & Finish

**Problem attempted**  
0

**Time elapsed**  
00:00:11

**SmartScore**  
set of 100  
0

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